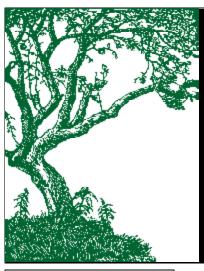
September 2001



Common Seattle Trees

that may qualify for new protection measures

For implementation of Seattle Municipal Code (SMC) Tree Protection Chapter 25.11 and Director's Rule 6-2001

Note: The Threshold Diameter indicated in this brochure refers to the size of tree, by specific species, that may be designated as an "Exceptional Tree" according to SMC 25.11 and Director's Rule 6-2001.

Thanks to the City of Bellevue's Parks and Community Services Department for the use of their publication Trees of Bellevue.

General

Three ornamental maples found in Seattle are shown at right. Two native species are described more in-depth in the next two pages. The following applies to all maples.

torm.

Deciduous trees or shrubs

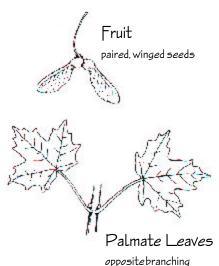
Deciduous - Opposite - Simple Palmate leaves always opposite on the branch; lobed to various degrees

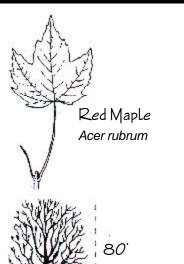
Fruit

Small and non-showy, usually in clusters: dark red (Japanese and Red) or yellow-green (Norway)

†lower

Always paired, winged seeds; called 'helicopters' by children for the way each half of the pair spins to the ground when dropped







Threshold: 2'8"

Acer macrophyllum

Threshold: 4' 6"

Leat

F*o*rm

torm.

30-100 feet; can have several main trunks; massive, spreading crown

eaves.

Deciduous - Alternate - Simple Palmate; 3-5 deep lobes; enormous; 8-14" in length and width

Bark

Green when young; dark graybrown, deeply furrowed, with mosses and ferns growing abundantly when older

†lower

Greenish-yellow and tiny (1/4"); hanging in elongated clusters

Fruit

Pairs of winged seeds; coarsely hairy at acute angled juncture

Tr*ee* Tip

Produces 'canopy roots' which harvest nutrients from the moss and debris which collect in the branches. Native.



Up to 30 feet; spreading, multistemmed shrub

Threshold: 6"

_eaves

Deciduous - Opposite - Simple Palmate; 7-9 pointed lobes; serrated edges; a little larger than your palm: 4 3/4" in length

and width

Bark

Grav-brown; smooth

-l*owe*r

Small and white (1/4"); maroon sepals underneath; hanging in

clusters

Fruit

Pairs of smooth winged seeds joined at an obtuse angle; to 1 1/ 4" long

Tree Tip

Called circinatrum to indicate the circles formed when tall branches bend to the ground and sprout roots.









ONDON PLANE TREE Plananus x acerifolia

Threshold: 4' 10"

F <u>orm</u>	70-100 feet; straight clear trunk; pyramidal crown becomes very large open and wide spreading at maturity
	Daviduana - Altamata - Cimala

Deciduous - Alternate - Simple _eaves Palmate; 3-5 shallow lobes; leaf edge coarsely toothed; to 10" wide and 8" long; dark green above, pale beneath

Mottled gray, olive green, and cream; Bark flaking off in plates

Tiny; grouped separately in small round Flower clusters; males yellow, females reddish

Fruit Globed shaped multiple fruit; usually 2 per stalk

Can be confused at first with maples, or T<u>ree</u> Tip sweet gum. Also known as Sycamore. F*o*rm

AMERICAN 5\VEETGUM Luquidambar styraciflua

Threshold: 2' 1" 60-75 feet; clear, straight trunk; torm. crown pyramidal early in life, rounded later

Deciduous - Alternate - Simple eaves. Star-shaped; 5-7 pointed, deep lobes; edges finely serrated; 4-6" in length and width

Gray-brown; thick; deeply furrowed with Bark rounded ridges

Yellow-green; tiny; in clusters Flower

Prickly sphere the size of a cherry tomato Fruit (1-1 1/2" in diameter); one per stalk; composed of many beaked, seedbearing capsules

Seen along many of Seattle's streets. Do |ree |ip not confuse with London Plane Tree.

Betula species Threshold: 6"

40-60 feet (European White Birch) or ├orm up to 80 feet (Paper Birch); can have several trunks; crown open and

rounded

eaves Deciduous - Alternate - Simple

> Pointed with round base; doubly serrate edge; 2-3" long (Paper) or 1-2"

(Euro.)

Bark White; easily peeling in papery strips

(Paper) or cracking to show dark furrows between white ridges (Euro.)

Flower Tiny flowers in two kinds of catkins:

catkin green and shorter; yellow,

longer

Fruit Fat green catkins of tiny winged

nutlets

Tree Tip The native species in this pair, Paper

Birch, was used in baskets and canoes.



10-40 feet; small trees or shrubs; torm. branches often appearing to grow in

horizontal layers

Deciduous - Opposite - Simple _eaves

Leaves oval with acutely pointed tips; veins parallel and curving to follow the

smooth leaf edge

Smooth except at base Bark

True flowers tiny, greenish yellow, and in clusters surrounded by 4-6 white to

pale pink petal-like bracts

Bright red oval fruits (3/8" long) in Fruit dense clusters

*⊢o*rm

Fruit

Threshold: 6"

Quercus Form _eaves

Trees and shrubs of a wide variety. The family is divided into 2 groups: red oaks and white oaks.

Deciduous - Alternate - Simple

Red oaks: pointed bristle-tipped lobes; White oaks:

rounded lobs

Bark

Dark gray-brown; furrowed or scaly

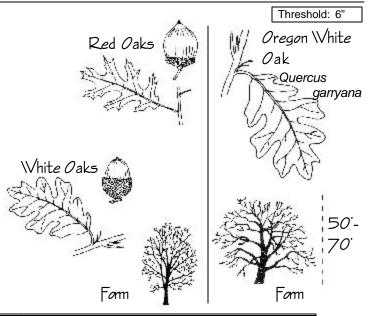
Flower

Tiny, yellow; occurring in short, catkinlike clusters

Acorn; inside of shell hairy (Red Oaks) or not hairy Fruit (White Oaks)

Though oaks are deciduous, the leaves stay on the Tree lip branches through winter and give trees a dead

appearance.



INCENSE CEDAR Calocedrus decurrens

Threshold: 3' 9"

100-150 feet; narrowly pyramidal, torm. sometimes with more than one main axis; short specimens used in hedges

Evergreen - Scales _eaves

Each leaf is a tiny, pointed scale 1/8" in length; scales sheath entire twig

Bark

Red brown; scaly to fibrous

Scales

*⊢o*rm

Unique cone which is oblong when Cone closed, but opens to show 6 scales; 3/4

- 1 1/2" long

Tree Tip

Examine leaves to avoid confusing this one with Western Red Cedar. Cones differ as well. Also known as Libocedrus decurrens.

Threshold: 4' 0"

Thuja plicata

Scales

torm.

150-200 feet; broadly pyramidal; trunk buttressed at base; lower branches drooping and J-shaped

Evergreen - Scales

Foliage in flat sprays "fronds"; leaves are tiny scales 1/4" long; overlapping to

make a braided pattern

Bark

eave5

Silvery gray outer bark; reddish inner

bark; very fibrous

Cone

Egg-shaped and woody; having 10 scales;

sitting upright on twig; 1/2" long

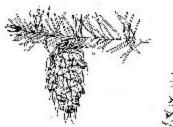
Tr*ee* Tip

Another very important Northwest native. The bark and wood are fragrant and rot-resistant: the bark can be made into rope; the wood is both a traditional and modern building material.



5cales

The conifers are set apart from the broadleaves by having a different kind of seed. Conifers get their name because for most species, their seeds are found in cones. There are a few species whose cones look more like fruits, however. Most conifers keep their needle-like leaves year-round. though there are few which drop them each fall.





A5 FIR Pseudotsuga menziesii DOLIGL

Threshold: 3' 0"

├orm

100-250 feet; older branches breaking off to leave lower trunk clear; open, spirelike crown

Leaf Petiole [.]

.eaves

Evergreen - Single Needles 1 1/4" flat needles; pointed tip; having a petiole

Bark

Dark brown-almost purplish; heavily furrowed

Cone

Distinctive pendant cone with 3-pronged bracts (mouse tails and feet as the story goes) extending out underneath each scale; 4" long

Tr*ee* Tip

Very common native. You can tell it is not a true fir because of the raised scars left on the twigs, the petioles of the needles, and the pendant cones.



*⊢o*rm

□RNHEML*OC*K Tsuga heterophylla

125-175 feet; pyramidal with a conspicutorm. ously drooping top; sweeping, feathery, branches to ground when open-grown

Evergreen - Single Needles eave5

Needles are different lengths; extending

horizontally from twig

Gray-brown and scaly Bark

Diminutive cones for such a big tree; 3/4"

in length; always pendant

Hemlocks are an important native species which indicate a healthy, mature |ree |ip forest. The scientific name is fitting: Tsuga means hemlock and heterophylla means "different leaves".



Threshold: 2' 0"

Pinus species

one

Ponderosa Pine

Pinus ponderosa

Needle

F_orm

Conifers of various heights; branches torm. arranged around a straight trunk like

a bottle brush - "whorled branching"

Evergreen - Bundled Needles eaves Needles are bundled together in fascicles of 1-5; needle number and length are shown for 4 species

commonly found in Seattle

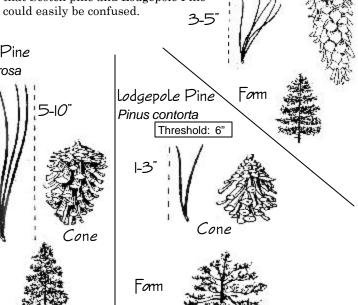
Cones have hard woody scales and vary in shape and size (noted at right). They are usually hanging

down off the branch.

You will need to use a combination of Tr*ee* Tip several of the above features to make a positive identification. You can see that Scotch pine and Lodgepole Pine

Western White Pine Pinus monticola

Threshold: 2' 6"



leaves arranged singly along stem; not opposite

Blade

the broad portion of a leaf

the uppermost layer of foliage in a forest of a single tree

Compound leaf

a leaf composed of several leaflets; a leaf whose blade is completely divided into several leaflets

Crown

the upper part of the tree, all of its branches and leaves together; similar to canopy

Deciduous

leaves falling off once a year

the area around the base of a tree within the outside edge of the crown; also called drip zone

Evergreen

leaves staying on year after year

height and general shape of the tree

the seed-bearing structure of the tree

Leaf

identified by having a tiny bud hidden between the leaf petiole and the twig

one of the small leaf-like structures in a compound leaf; distinguished from a leaf because there is no bud hidden between the leaflet petiole and the axis it is attached to

a shallow division in a simple leaf

Opposite

leaves arranged in pairs along a stem so that 2 leaves are opposite each other

Petiole

the stalk of the leaf which attaches it to the twig

a many-stemmed woody plant, usually less than 30 feet tall

Simple Leaf

a leaf whose blade is whole and not completely divided into leaflets

generally a single-stemmed woody plant growing at least 20 feet tall at maturity

> City of Seattle Department of Design, Construction and Land Use

